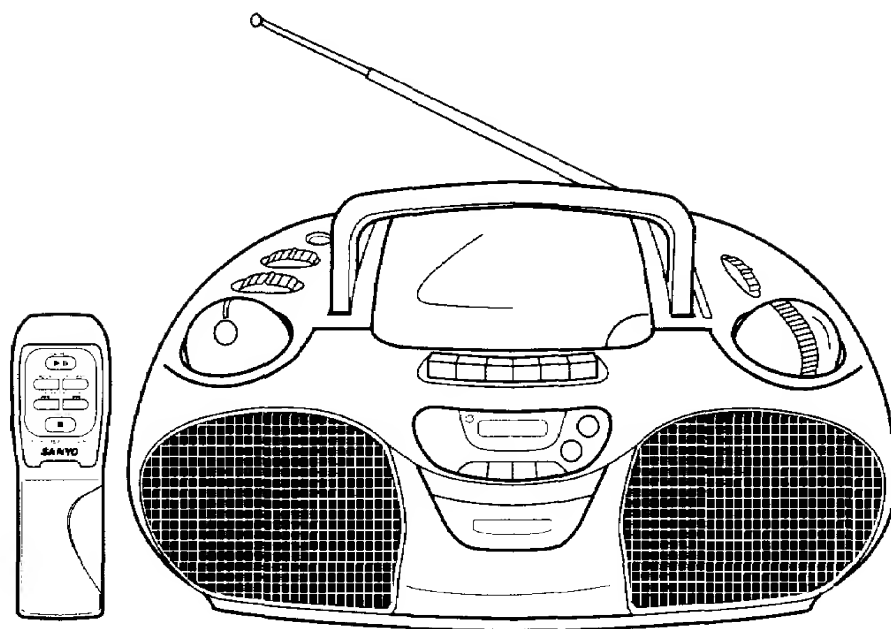




## INSTRUCTION MANUAL

# MCD-X77L

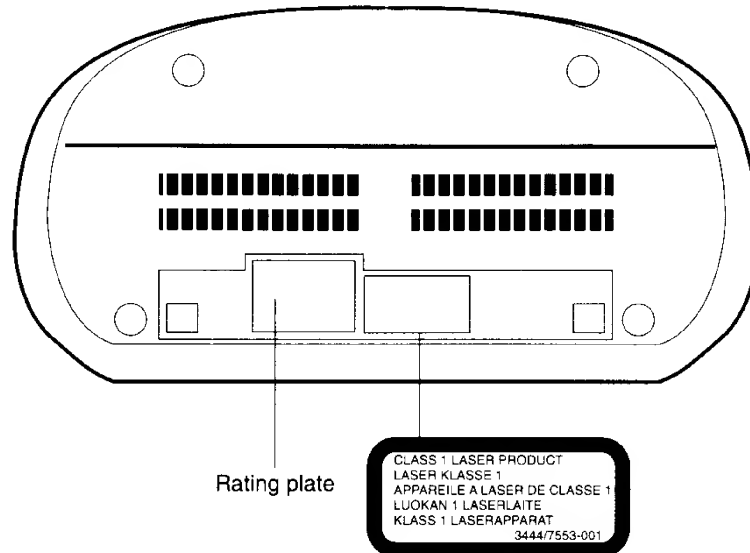
## CD Radio Cassette Recorder



**CAUTION:**

**THIS PRODUCT CONTAINS A LOW POWER LASER DEVICE, TO ENSURE CONTINUED SAFETY DO NOT REMOVE ANY COVERS OR ATTEMPT TO GAIN ACCESS TO THE INSIDE OF THE PRODUCT.**

**REFER ALL SERVICING TO QUALIFIED PERSONNEL.**

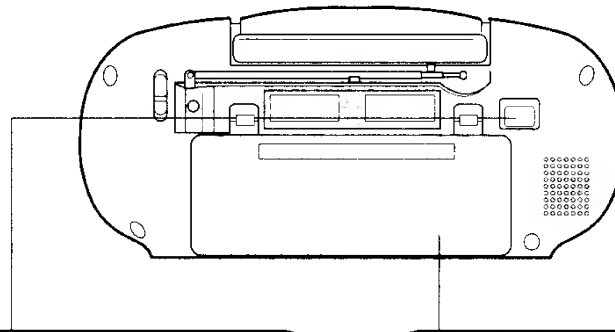


**FOR SAFE AND EFFICIENT OPERATION**

- Do not damage the mains lead.
- When not in use, disconnect the mains lead from the outlet. Grasp the plug, not the cord, when disconnecting the unit.
- If water should enter the unit, electrical shock or a malfunction may result. Use in an area where there is low humidity and little dust.
- Do not disassemble or alter the unit in any way.
- Do not use the unit in areas where extremes in temperature occur (below 5° C or exceeding 35° C), or where it may be exposed to direct sunlight.
- Because of the CD player's extremely low noise and wide dynamic range, there is a tendency to turn the volume on the amplifier higher than necessary. Doing so may produce an excessively high output from the amplifier which can cause damage to your speakers. Please be careful in this regard.
- Sudden changes in the surrounding temperature can cause dew to form on the optical pickup lens inside the unit. Under this condition the unit may be unable to operate properly. If this should occur, remove the disc and allow the player to adjust to the surrounding temperature.
- This unit must be operated in a horizontal position.

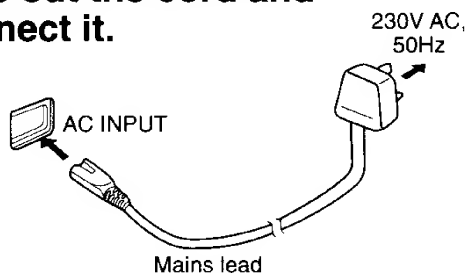
- The apparatus shall not be exposed to dripping or splashing.
- Do not install the equipment in a confined space, such as a book case or built-in cabinet.

# POWER SUPPLY



## AC power operation

**Take out the cord and connect it.**



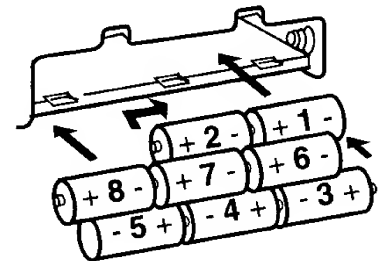
### NOTES:

- When the mains lead is connected to the unit, the installed batteries will be automatically disconnected.
- The FUNCTION switch is mounted on the secondary side. The unit is not disconnected from mains, even when switched off.

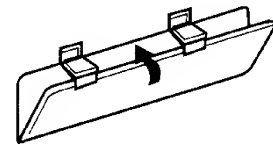
## Battery power operation

**Install batteries. Observe + and - signs.**

8 x "D" size batteries



Replace lid.



## IMPORTANT


If the plug supplied with this equipment is not suitable for the socket outlets in your home it should be cut off and replaced with the correct type.

### Disposal of Plug

If the non rewirable plug is to be cut off, the removed plug should be disposed of carefully as there is a shock hazard should the plug be inserted into a live socket.

### Replacing Fuse

The detachable fuse cover must be replaced after changing the fuse.

Only a 3A fuse should be used and should comply with BS1362 and should carry the ASTA mark .

The wires in the mains lead are coloured in accordance with the following code:

Blue	Neutral
Brown	Live

The wires in the mains lead must be connected to the terminals in the plug as follows:

Wire colour	Plug terminal marking
Blue	N or Black or Blue
Brown	L or Red or Brown

Do not connect either wire to the earth terminal. If the mains plug contains a fuse this should be 3A, if a plug without a fuse is used the distribution board fuse should not be greater than 5A.

- Disconnect the mains plug from the supply socket when not in use. Do not remove the back cover with mains connected.

- The unit is not disconnected from the mains unless it is unplugged from the AC wall outlet.

## CAUTION:

### WHEN INSTALLING THE BATTERIES

To prevent leakage from the batteries, which is corrosive and can cause personal injury and damage to the unit, observe the following precautions:

1. The batteries must be installed correctly. Match the polarities (+ and - signs) on the batteries, to the polarities shown on the back of the unit.
2. Do not mix new batteries with old or used batteries.
3. Only use batteries of the same type and brand.

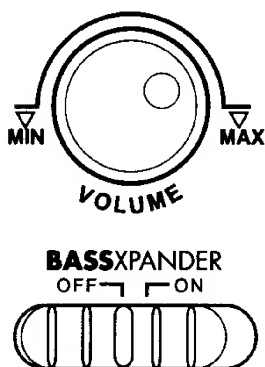
4. If the unit will not be used for an extended period of time, remove the batteries and store them in a cool place.
5. Carefully follow the battery manufacturer's instructions for proper use and disposal.
6. **DO NOT ALLOW YOUNG CHILDREN TO HANDLE BATTERIES.**

### NOTE:

When the batteries have become discharged, they must be disposed of in a safe manner which complies with all applicable laws.

## GENERAL OPERATION

### To control the sound



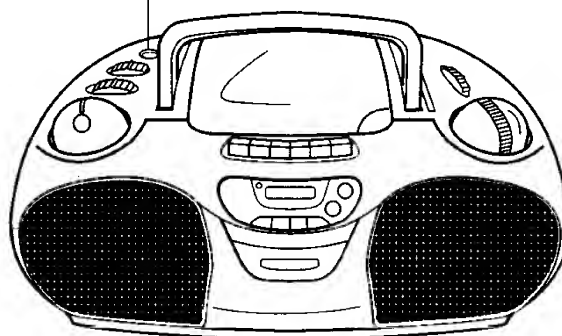
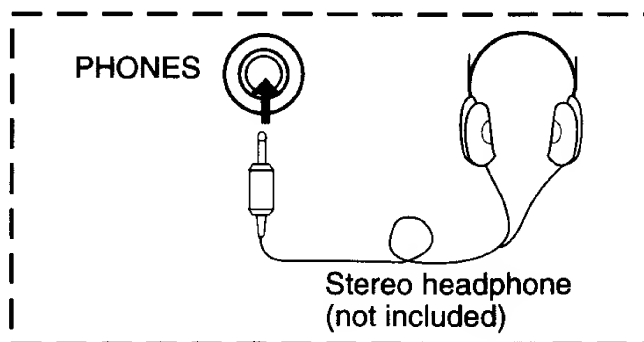
### Bass expander switch (BASSXPANDER)

**ON** : Increases the bass output level.

**OFF**: For normal bass output level.

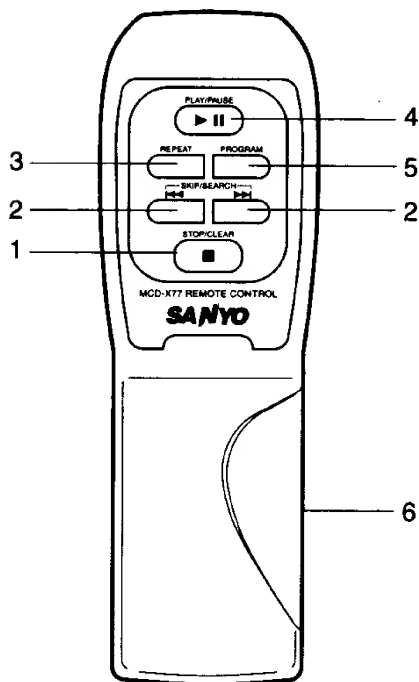
### Using headphones

When the headphones are plugged in the speakers are automatically disconnected.



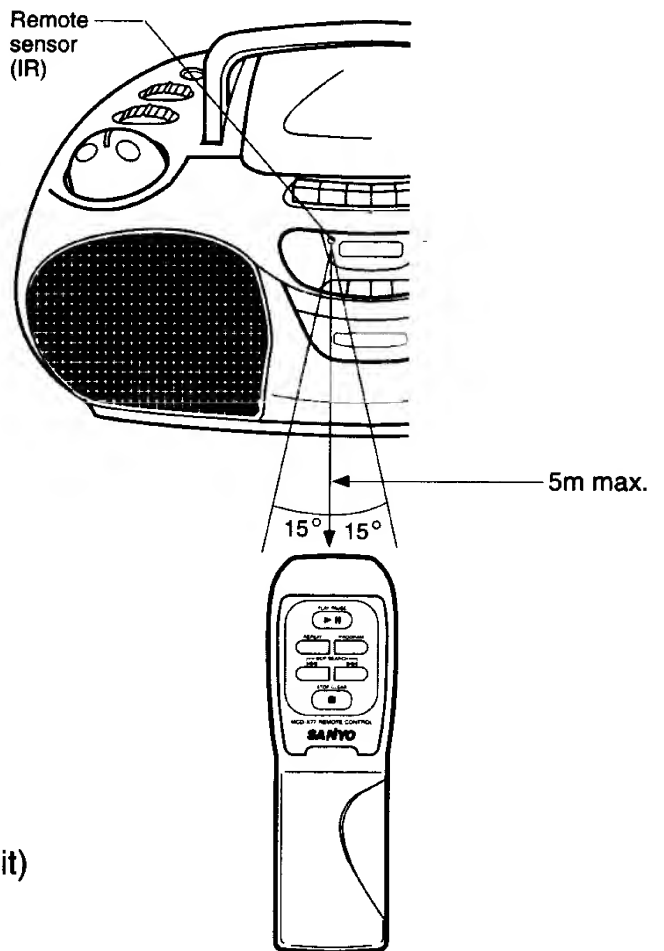
# REMOTE CONTROL

## Controls



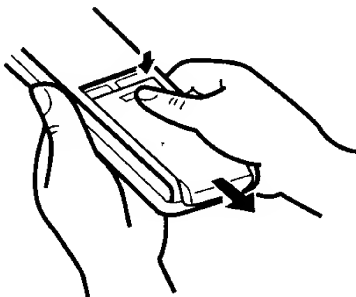
1. Stop/Clear button (STOP/CLEAR)
2. Skip/Search buttons (SKIP/SEARCH)
3. Repeat button (REPEAT)
4. Play/Pause button (PLAY/PAUSE)
5. Program button (PROGRAM)
6. Battery compartment lid (back of the unit)

## Remote control range

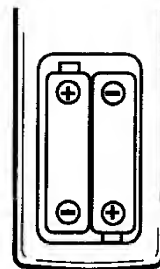


## Inserting batteries

1.



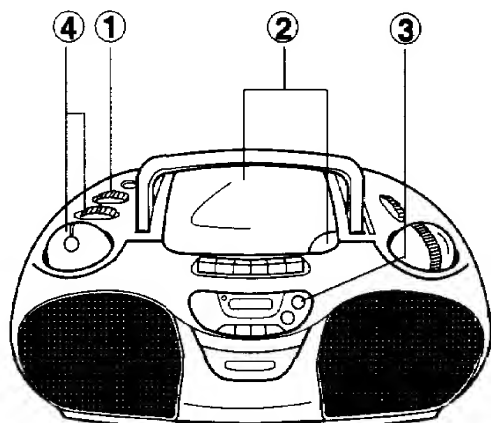
2.



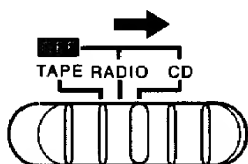
Two "AA" batteries

# COMPACT DISC OPERATION

## CD PLAY

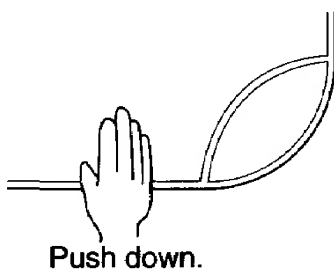
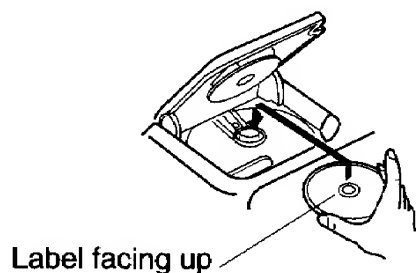
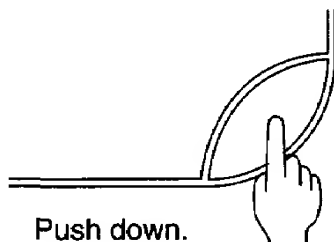


### ① To CD.



PLAY/PAUSE button will be on in CD mode.

### ②

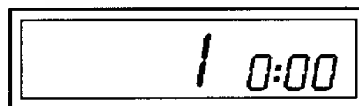


### ③ Press PLAY/PAUSE.

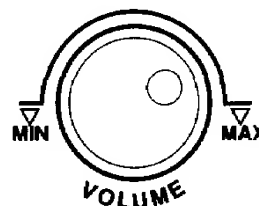
PLAY/PAUSE



CD DISPLAY WINDOW



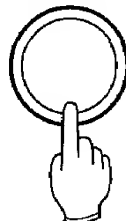
### ④ To control the sound.



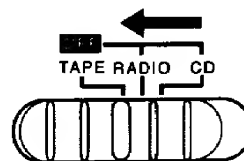
BASSXPANDER  
OFF — ON



STOP/CLEAR



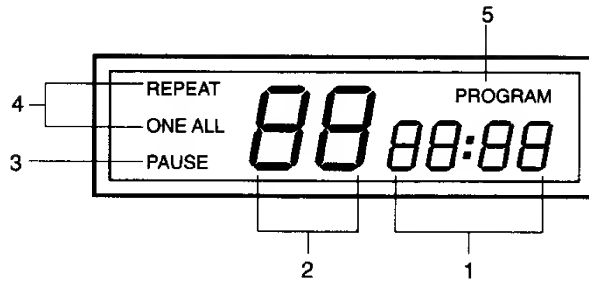
Press STOP/CLEAR.



To OFF (TAPE).

PLAY/PAUSE button will be off.

## CD DISPLAY WINDOW



1. Time Display Indicator:  
Elapsed time is displayed.
2. Track Number Indicator:  
CD track number is indicated.
3. Pause Mode Indicator:  
Lights when playing CD is paused.
4. Repeat Mode Indicator:  
Lights when repeat mode is activated.
5. Programming Mode Indicator:  
Lights when program mode is activated.

### NOTES:

- If a disc is loaded upside down, or if no disc is loaded, the CD player will not operate.
- Opening the CD compartment lid while a CD is playing could scratch the disc. Always press the STOP/CLEAR button and wait for the disc to stop rotating before opening the CD compartment lid.

## Compact discs

- Both 8cm and 12cm discs can be played in this unit.
- NOTE: Place only one disc at a time in the CD compartment.
- Only discs bearing the logo as shown can be played in this unit.

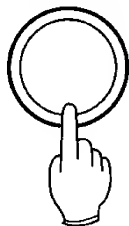


- Always place the compact disc in the CD compartment with the label facing up. Compact discs can be played on only one side.
- Fingerprints and dust should be carefully wiped off the disc's signal surface (opposite the label side) with a soft cloth. Gently wipe in a straight motion from the inside to the outside of the disc.
- Discs should be returned to their case after use to avoid serious scratches which could cause the player to skip.
- Do not expose a disc to direct sunlight, high humidity, or high temperatures for extended periods of time to prevent warping the disc.
- Do not apply paper or write anything on the surface of the disc.
- Do not use cleaners or antistatic sprays on discs, such as those used for phonograph records.

### IMPORTANT NOTE:

If an abnormal display indication, or an operating problem occurs, disconnect the mains lead. Remove the batteries (see page 2). Wait at least 5 seconds, then reconnect the mains lead. Reinstall the batteries.

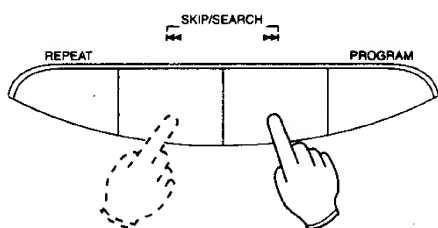
#### PLAY/PAUSE



#### PAUSE

1. Press the PLAY/PAUSE button during play. Play will temporarily stop, and the CD TRACK NUMBER will flash and PAUSE indicator will show.
2. Press the PLAY/PAUSE button again to resume play. Pause indicator will go off.

#### TRACK SEARCH

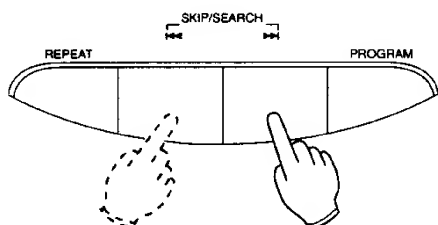


Press and hold down during playback

1. In the play mode, press and hold down the **◀◀** or **▶▶** SKIP/SEARCH button to lower the volume level and quickly advance or return to any part of the disc.
2. Release the **◀◀** or **▶▶** SKIP/SEARCH button to return the volume to normal level and resume play.

#### NOTE:

If the **◀◀** or **▶▶** SKIP/SEARCH button is pressed during the PAUSE mode, no sound will be heard, and the PAUSE mode will continue when the button is released.



Press and release repeatedly

#### TRACK SKIP

1. Press and release the **◀◀** or **▶▶** SKIP/SEARCH button repeatedly during play to quickly locate the beginning of a track.
2. The CD track number display will show the number of the selected track. Play will continue from the beginning of the new track.

#### NOTE:

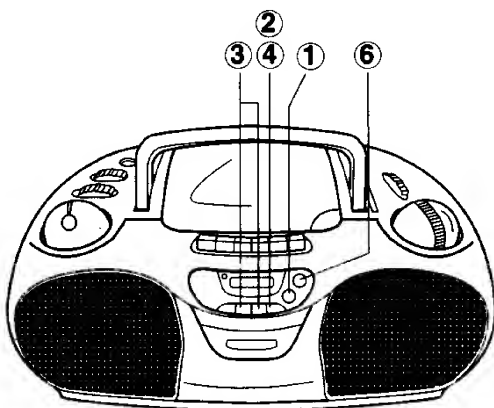
If the **◀◀** or **▶▶** SKIP/SEARCH button is pressed while the unit is in the PAUSE mode, the unit will remain in the PAUSE mode when the button is released.



## PROGRAMMED PLAY

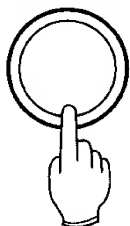
With programmed play, up to 20 tracks on a disc can be memorized and played in any order.

### TO PROGRAM

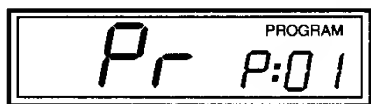
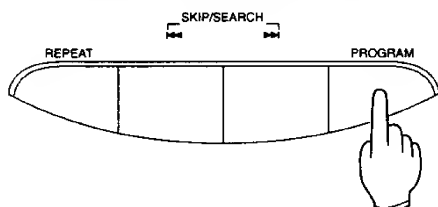


#### ① Press STOP/CLEAR.

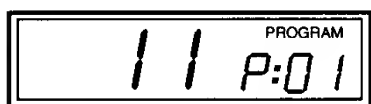
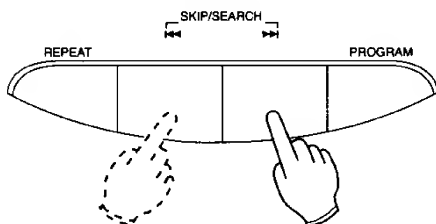
STOP/CLEAR



#### ① Press PROGRAM.

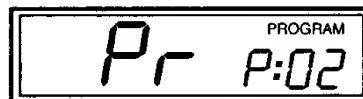
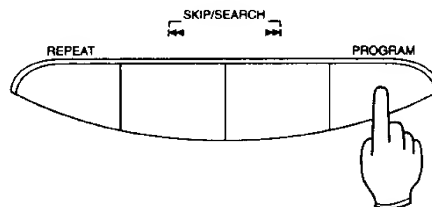


#### ③ Press |◀◀ or ▶▶|.



- The selected track number appears.

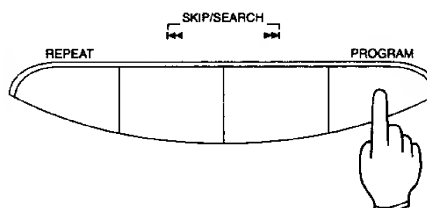
#### ④ Press PROGRAM.



#### ⑤ Repeat ③ and ④ to memorize additional tracks.

### Checking the program

Press PROGRAM.

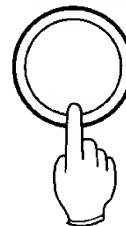


To view the memorized track numbers, in the order they were entered.

### TO BEGIN PROGRAM PLAY

#### ⑥ Press PLAY/PAUSE.

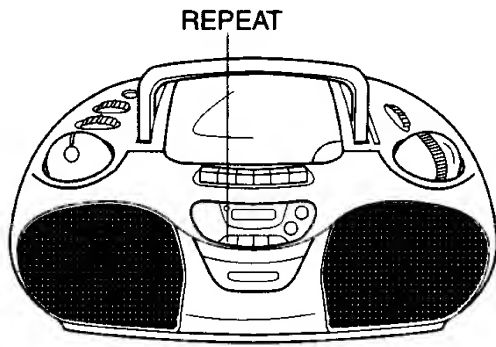
PLAY/PAUSE



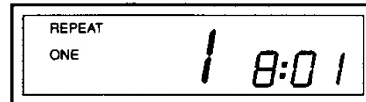
**Programmed play will begin.**

- To cancel programmed play, press STOP/CLEAR twice.  
The PROGRAM indicator will go off.

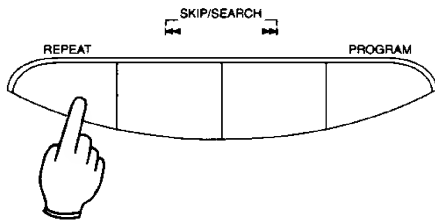
## REPEAT PLAY



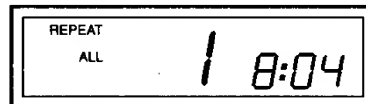
- ① Press REPEAT  
The REPEAT ONE indicator will show.  
To repeat the current track continuously.



**Press REPEAT before or during play (or programmed play).**

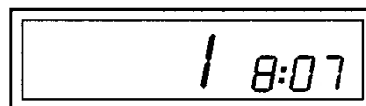
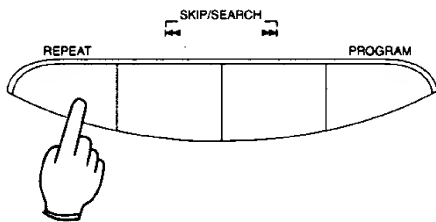


- ② Press REPEAT again  
The REPEAT ALL indicator will show.  
To repeat the entire disc.



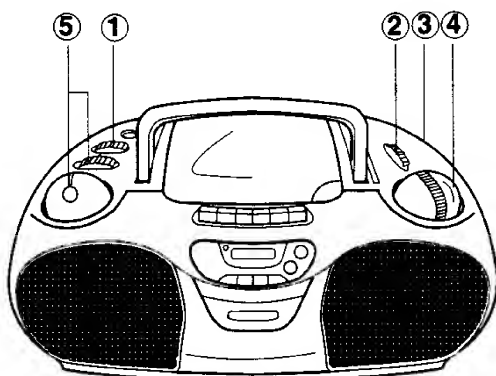
## To cancel repeat play

**Press REPEAT again.**

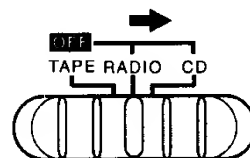


- The REPEAT indicator will go off.

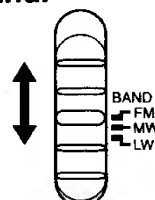
## RADIO OPERATION



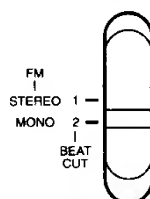
### ① To RADIO.



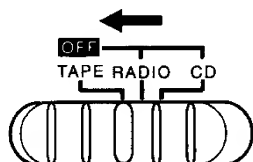
### ② Select a band.



### ③ Select FM MONO/STEREO mode. (cabinet back)

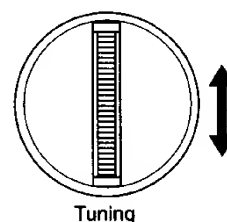
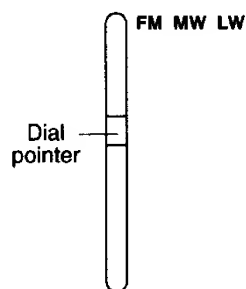


FM STEREO indicator  
will be on when Stereo  
signal is received at FM  
STEREO mode.

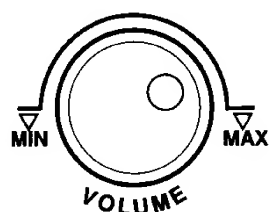


To OFF (TAPE).

### ④ Tune in a station.

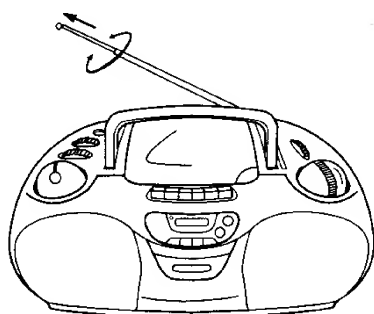


### ⑤ To control the sound.

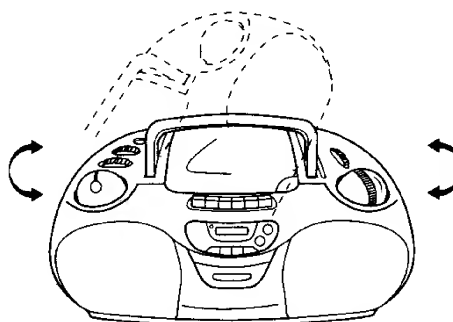


## To Improve reception

FM-Extend and change position.

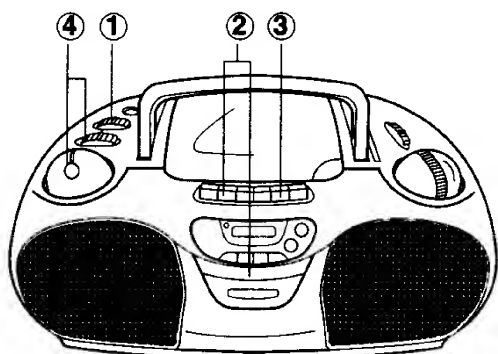


MW/LW - Rotate unit.



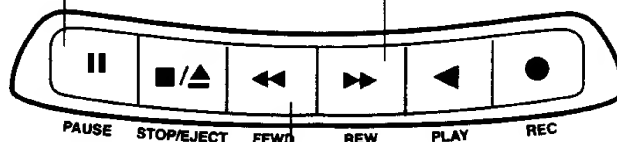
# CASSETTE TAPE OPERATION

## PLAYBACK



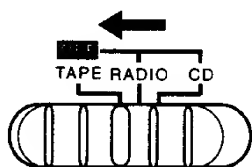
Press to temporarily stop the tape during playback or recording. Press it again to continue.

To quickly wind the tape backward

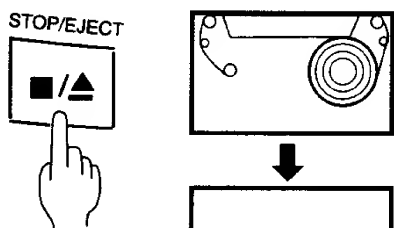


To quickly wind the tape forward

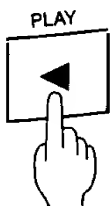
### ① TO TAPE.



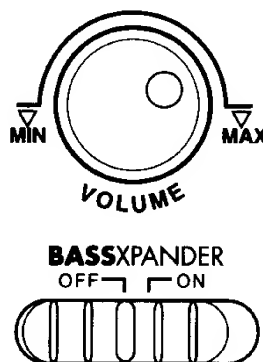
### ② Press STOP/EJECT. Insert cassette.



### ③ Press PLAY.

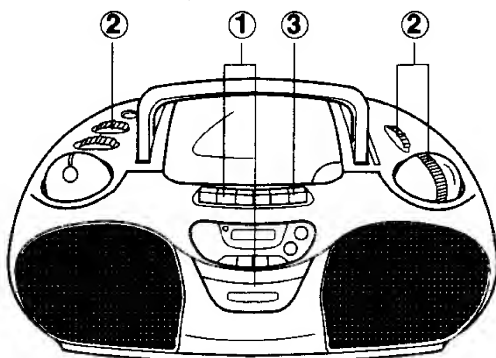


### ④ To control the sound.

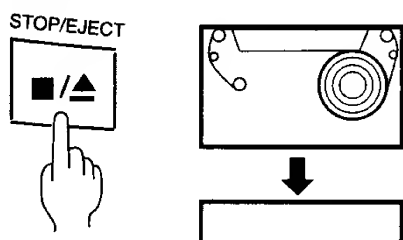


## RECORDING

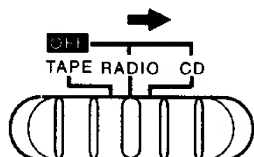
### (A) Recording from the built-in radio



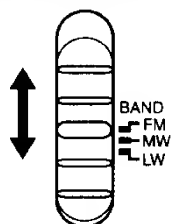
#### ① Press STOP/EJECT. Insert cassette



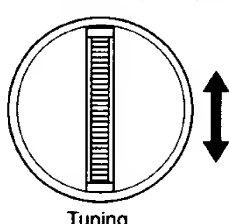
#### ② To RADIO.



Select a band.

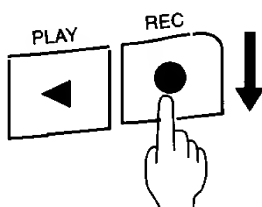


Tune in a station.



Select FM mode (STEREO or MONO) switch at the back of the unit.

#### ③ Press REC.



## WARNING

Recording copyright material without permission of the copyright owners is usually an infringement. If you wish to re-record copyright material, permission from the copyright owner is necessary. SANYO does not approve of, and cannot be held responsible for, any unlawful use of this machine.

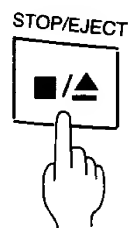
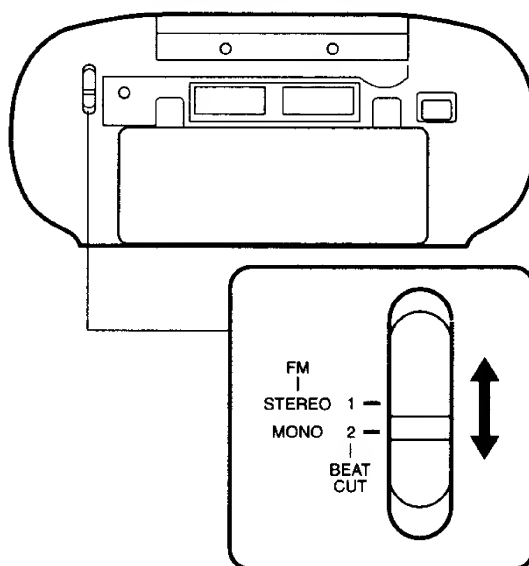
### Automatic Level Control (ALC) recording

The ALC circuit adjusts the recording input level automatically. No adjustments are required.

### BEAT CANCEL switch on MW/LW

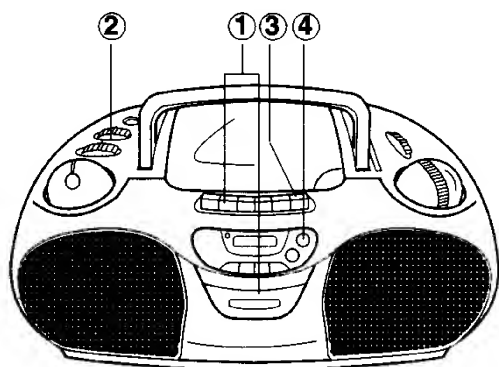
When recording a radio program, an irritating "whistling" sound may sometimes be heard. If this occurs, select position 1 or 2. Leave the switch in the position that gives the best results.

### Back side of the unit



Press **STOP/EJECT** once to stop the tape. Press again to remove the cassette.

## (B) Recording from a compact disc

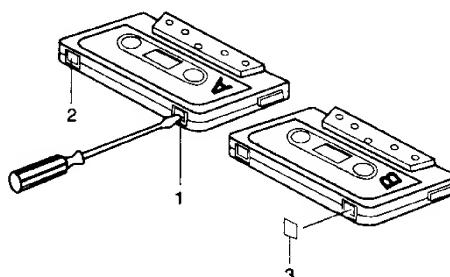


### Safeguards against accidental erasure

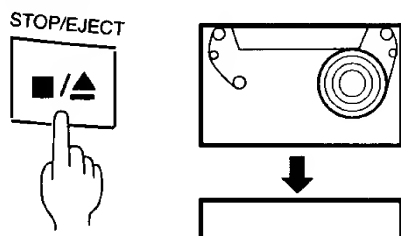
To protect side A, break out tab (1). To protect side B, break out tab (2).

#### NOTE:

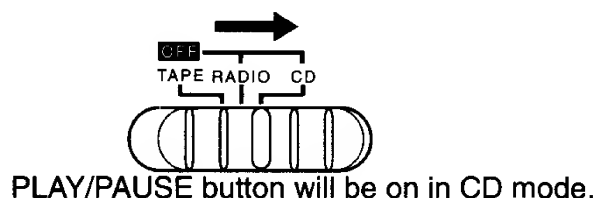
A cassette with the erase guard tabs removed cannot be erased or used for recording and the REC button cannot be depressed. To record or erase a protect cassette, cover the tab openings with adhesive tape (3).



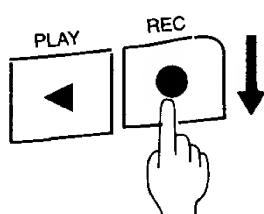
### ① Press STOP/EJECT. Insert cassette.



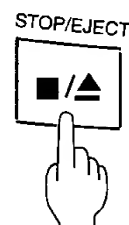
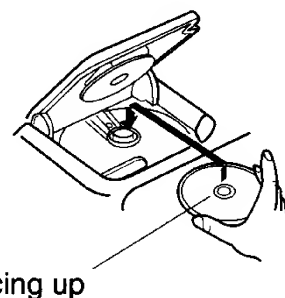
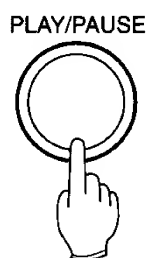
### ② To CD.



### ③ Press REC.



### ④ Press PLAY/PAUSE.



Press **STOP/EJECT** once to stop the tape. Press again to remove the cassette.

## MAINTENANCE

### Cleaning the unit

Clean the outside of the unit with a clean soft cloth, moistened with lukewarm water. Do not use solvents such as benzene or thinner. These will permanently damage the units finish.

### Cleaning the tape heads

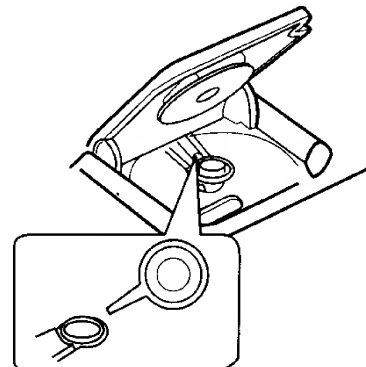
When dust or reddish-brown oxide builds up on the tape deck heads, pinch roller and capstan, the following problems may result:

- Poor sound quality during playback
- Distorted, poor quality recordings
- Erratic tape speed during recording or playback

To ensure playback and recording with good quality sound, use a cleaning tape (available from your local audio dealer) to clean the head block of the deck after about every 10 hours of use.

### Cleaning the CD player lens

The lens should never be touched. If dust is on the lens, blow it off using a camera lens blower. (Please consult your dealer.)



### If trouble occurs...

To avoid the hazard of electric shock and damage to the unit, have the unit bench tested by an authorized SANYO service station. Do not remove the unit from its cabinet to attempt repairs yourself.

## SPECIFICATIONS

### (Cassette Section)

Recording system	: AC bias, 4 track stereo
Erasing system	: Magnet erase
Tape Speed	: 4.75 cm/sec.
Fast forward and rewind time	: 170sec. (C-60 tape)
Frequency response	: 80-10,000Hz (normal tape)

### (CD Section)

Channels	: 2 channels
S/N ratio	: 70 dB
Wow & Flutter	: undetectable
Sampling frequency	: 44.1 kHz
Quantization	: 16 bits linear/ch
Pick up light source	: Semi-conductor laser
Pick up wave length	: 790nm
Laser output	: Continuous wave max. 0.6mW

### (Radio Section)

Tuning ranges	: FM : 87.5-108 MHz MW : 525-1610 kHz LW : 148-280 kHz
Aerials	: Built-in ferrite bar and telescopic rod aerials

### (General)

Power output	: 2.3W/ch (DC max.)
Speaker	: 10 cm x 2 (4ohms)
Terminal impedance	: PHONES : 32ohms
Power source	: AC : 230 V, 50 Hz DC : 12 V ( 8 x "D" size batteries)
Dimensions	: 342 x 163 x 263 mm (w) x (H) x (D) mm
Weight (approx)	: 3.1kg (excluding batteries)

## **GUARANTEE TO CUSTOMER**

Sanyo U.K. Sales Ltd. (the Company) guarantees to the initial retail purchaser that if this equipment is or becomes defective and that, in the opinion of the Company, the defect is due to faulty material or workman-ship the Company will, for a period of 12 calendar months from the date of sale to the original purchaser repair or replace, as its sole option, free of charge, any such defective component part of the equipment, always provided that:-

1. The equipment has at all times been used in accordance with the operating instruction issued by the Company, and has not been connected to an electrical mains supply for which it has not been adjusted.
2. Accidental damage, or damage caused by negligence of misuse by the user, including leakage from exhausted batteries, is specifically excluded.
3. Unauthorised repairs, or any modification to the equipment which has not been expressly approved by the Company shall render this guarantee null and void.
4. Failure due to fair wear and tear of any item, such as batteries, record playing style, and tape recording, playback and erase heads is specifically excluded.

This guarantee is not transferable and is only applicable within the United Kingdom (and the Republic of Ireland). Nothing in this express guarantee affects the statutory rights available to the purchaser of this equipment.

**Note:** This guarantee supersedes any other form of guarantee that may inadvertently have been enclosed with or attached to the product. (August 1978).

*Dear Customer*

Thank you for buying Sanyo. This equipment should give you many years of pleasure and faithful service but in the event that a fault occurs, the following notes for your guidance may be helpful:-

1. PLEASE RETAIN YOUR PURCHASE RECEIPT WHICH WILL BE REQUIRED FOR SERVICE DURING GUARANTEE.
2. If your Sanyo equipment proves faulty during the period of guarantee, take it or send it back to the dealer who originally supplied it together with this guarantee and the proof of purchase. We have made arrangements with our approved dealers under which they will carry out in-guarantee service repairs on our behalf, in this way, we hope to reduce to a minimum the amount of time you will be without your equipment.
3. If for some reason it is impossible to return the equipment to the original supplier, please contact our Consumer Relations Department at the address below for further advice.
4. Should the equipment require servicing after the expiry of the guarantee period, take or send it to the original supplier or any other Sanyo dealer. He will be pleased to give you a quotation for the repair. If you are in any doubt about what to do, write to us at the address below or telephone:

**Consumer Relations Department,  
Sanyo U.K. Sales Ltd.,  
Sanyo House  
Otterspool Way, Watford,  
Hertfordshire WD2 8JX  
Tel: Watford 246363**

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